

Fig. 17. The same thing I try'd also by letting the Sun's Light into a dark Room through two little round holes *F* and *g* made in the Window, and with two Parallel Prisms *ABC* and *αβγ* placed at those holes (one at each) refracting those two beams of Light to the opposite Wall of the Chamber, in such manner that the two colour'd Images *P T* and *m n* which they there painted were joyned end to end and lay in one straight Line, the red end *T* of the one touching the blew end *m* of the other. For if these two refracted beams were again by a third Prism *DH* placed cross to the two first, refracted Sideways, and the Spectrums thereby translated to some other part of the Wall of the Chamber, suppose the Spectrum *P T* to *p t* and the Spectrum *M N* to *m n*, these translated Spectrums *p t* and *m n* would not lie in one straight Line with their ends contiguous as before, but be broken off from one another and become Parallel, the blew end of the Image *m n* being by a greater Refraction translated farther from its former place *M T*, than the red end *t* of the other Image *p t* from the same place *MT* which puts the Proposition past dispute. And this happens whether the third Prism *DH* be placed immediately after the two first or at a great distance from them, so that the Light refracted in the two first Prisms be either white and circular, or coloured and oblong when it falls on the third.

Exper. 6. In the middle of two thin Boards I made round holes a third part of an Inch in Diameter, and in the Window-shut a much broader hole, being made to let into my darkned Chamber a large beam of the Sun's Light; I placed a Prism behind the Shut in that beam to refract it towards the opposite Wall, and close behind the Prism I fixed one of the Boards, in such manner that the middle of the refracted Light might pass through the hole made

made in it, and
Then at the dist
Board I fixed th
middle of the ref
in the first Board
pass through the
ing intercepted b
loured Spectrum
I fixed another
through the hole
Prism, and by tu
I caused the Imag
move up and do
might successively
fall upon the Pri
noted the places
after its Refracti
the difference of
being most refrac
end of the Image
Prism than the Li
Image, which pro
second. And thi
Prisms were paral
Horizon in any g

Illustration. Let
through which the
and let the refrac
Board *D E*, and
hole *G* made in t
jected part of the
second Board *d e*
Image of the Sun